

10751 Private Cloud Configurations and Deployment with System Center 2012

Course Duration: 5 days

Overview : Students will learn to design, install and configure a private cloud, including how to configure and deploy the application infrastructure and key components of System Center 2012 that are necessary for delivering services on private cloud infrastructure.

Outline:

Lesson 1 - Planning for the Private Cloud

Understanding the Private Cloud
Requirements for Deploying a Private Cloud
Designing the Private Cloud Components
Deploying a Private Cloud Infrastructure with System Center 2012
Deploying Hyper-V Clustering with Virtual Machine Manager (VMM)
Lab : Creating a Hyper-V Cluster with Virtual Machine Manager

Lesson 2 - Configuring and Deploying the Private Cloud Infrastructure

Virtual Machine Manager Architecture and Components Overview
Installing and Upgrading Virtual Machine Manager
Configuring VMM Security and Roles
Understanding Host Groups
Lab : Configuring and Deploying the Private Cloud Infrastructure

Lesson 3 - Extending and Maintaining the Private Cloud Infrastructure

Overview of the PXE and Update Server Roles
Deploying Bare-Metal Hyper-V Host Servers
Configuring the Update Server Role
Creating and Remediating an Update Baseline
Lab : Maintaining the Private Cloud Infrastructure

Lesson 4 - Configuring Virtual Application Delivery

Dynamic Application Deployment Overview
Web Deployment Packages
Server Application Virtualization Overview
Configuring Server App-V Components
Sequencing and Deploying Virtual Applications
Lab : Configuring Virtual Application Delivery

Lesson 5 - Creating the Private Cloud Building Blocks

Configuring Guest Operating System Profiles
Configuring Hardware Profiles



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Deploying SQL Server Using SQL Server Profiles
Configuring Application Profiles for a Deployment
Configuring Virtual Machine Templates
Configuring Self-Service Portal Users
Lab : Creating the Private Cloud Building Blocks

Lesson 6 - Deploying and Accessing the First Business Unit Private Cloud

Understanding Private Clouds
Installing and Configuring Application Controller
Creating and Managing Services and Service Templates
Lab : Deploying and Accessing the First Business Unit Private Cloud

Lesson 7 - Monitoring the Private Cloud Infrastructure

Operations Manager Architecture and Security
Upgrading Operations Manager
Configuring Notifications
Configuring Management Packs
Configuring Integration with System Center 2012
Lab : Monitoring the Private Cloud Infrastructure

Lesson 8 - Extending and Customizing Monitoring of the Private Cloud Infrastructure

Configuring a SharePoint Portal
Using the Monitoring Templates
Understanding Distributed Application Monitoring
Lab : Extending and Customizing Monitoring of the Private Cloud Infrastructure

Lesson 9 - Implementing Service Management for the Private Cloud

System Center Service Manager Architecture Overview
Upgrading Service Manager
Understanding Service Manager Work Items
Configuring System Center Service Manager Connectors
Configuring Notifications
Understanding Incident and Problem Management
Lab : Implementing Service Management for the Private Cloud

Lesson 10 - Configuring a Private Cloud Service Catalog

What Is a Service Catalog?
Cloud Service Process Management Pack Overview
Configuring Service Request Fulfillment
Configuring Service Offerings
Service Level Management
Lab : Configuring a Private Cloud Service Catalog

Lesson 11 - Protecting the Private Cloud Infrastructure

Data Protection Manager Architecture and Security



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Upgrading Data Protection Manager
Configuring Data Protection Manager for Protection of the Private Cloud
Configuring Application Protection for the Private Cloud
Restoring Applications to the Private Cloud
Lab : Protecting the Private Cloud Infrastructure

Lesson 12 - Automating and Standardizing the Private Cloud

System Center Orchestrator Overview
Deploying and Configuring Core Components
Configuring Integration Packs
Creating Runbooks
Executing a Runbook from Service Manager
Lab : Automating the Private Cloud